ORGANIC ELECTROLUMINESCENE ELEMENT

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- european:

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Abstract of JP2002043058

PROBLEM TO BE SOLVED: To provide an organic electroluminescent element having high luminance and long service life. SOLUTION: As a structural material of an organic thin-film layer to be provided between a positive electrode and a negative electrode, a specified fluoranthene compound expressed with a general formula I is used. (In the formula, R1-R10 are independently a hydrogen atom, a halogen atom, a hydroxyl group, an amino group, a nitro group, a cyano group, an alkyl group, an alkenyl group, a cycloalkyl group, an alkoxy group, an aromatic hydrocarbon group, an aromatic heterocyclic group, an aralkyl group, an aryloxy group, an alkoxylcarbonyl group, and a carboxyl group, and at least one of the R1-R10 is a diallyl amino group expressed as -NAr1Ar2 (Ar1 and Ar2 separately means an aryl group having 6-20 carbon), and two of the R1-R10 may form a ring).

$$R_8$$
 R_9
 R_7
 R_{10}
 R_6
 R_5
 R_4
 R_3
 R_1
 R_2
 R_4
 R_3

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